



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 43] नई दिल्ली, शनिवार, अक्टूबर 28, 1978 (कार्तिक 6, 1900)  
No. 43] NEW DELHI, SATURDAY, OCTOBER 28, 1978 (KARTIKA 6, 1900)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके ।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

### PART III—SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
Notifications and Notices issued by the Patent Office relating to Patents and Designs

#### THE PATENT OFFICE PATENTS AND DESIGNS

(Calcutta, the 28th October 1978)

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

21st September, 1978

- 1045/Cal/78. Alfa-Laval Aktiebolag. Plate heat exchanger.  
1046/Cal/78. Schlumberger Overseas, S.A. Method and apparatus for determination of subsurface permittivity and conductivity.  
1047/Cal/78. Diafil International S.A. Suspension system for vehicle wheels.  
1048/Cal/78. Blacke-Durr AG. Elastic coupling.

22nd September, 1978

- 1049/Cal/78 Stanadyne, Inc. Temperature compensated fuel injection pump.  
1050/Cal/78. Jason La-Z-Boy Chair Company Pvt. Ltd. Improved reclining chair. (September 22, 1977).  
1051/Cal/78. Bunker Ramo Corporation. Coaxial connector.  
1052/Cal/78. Combustion Engineering, Inc. Char separator.  
1053/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February 17, 1977.]

1054/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February, 17, 1977.]

1055/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February, 17, 1977.]

1056/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February, 17, 1977.]

1057/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February, 17, 1977.]

1058/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February, 17, 1977.]

1059/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February, 17, 1977.]

1060/Cal/78. Chinoin Gyogyszer Es Vegyeszeti Termekek Gyara Rt. A process for preparation of new amino acid derivatives. [Divisional date February, 17, 1977.]

23rd September, 1978

1061/Cal/78. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Equipment for preheating the intake air for air-compressing internal combustion engines.

1062/Cal/78. Gulf Research & Development Company. A process for separating tar and solids from coal liquefaction products using a halogenated aliphatic solvent.

1063/Cal/78. Gulf Research & Development Company. A process for increasing the fuel yield of coal liquefaction products by extraction of asphaltenes, resins and aromatic compounds from said coal liquefaction products.

25th September, 1978

1064/Cal/78. S. N. Pandey. Identification of bovine by n-rintometry of nose print of cattle and buffalos.

1065/Cal/78. Santitsu Denki Kabushikikaisha. A process for manufacturing a multi-colored display polarizer.

1066/Cal/78. The Boots Company Limited. Fungicidal compounds.

1067/Cal/78. Hoechst Aktiengesellschaft. After treatment of thermally pretreated tetrafluoroethylene polymers and the polymer powders obtained.

1068/Cal/78. Societe D'Etude Et D'application Industrielle De Brevets (SEAB). Simplified front axle with two drive wheels for a motor vehicle.

1069/Cal/78. Vereinigte Österreichische Eisen-Und Stahlwerke-Alpine Montan Aktiengesellschaft. Device for provisionally consolidating a gallery and suitable consolidating frame.

26th September, 1978

1070/Cal/78. J. F. Antonov. (2) I. A. Kadi-Ogly. (3) B. K. Perchanok and P. I. Chashnik. Directly fluid cooled rotor for electrical machine.

1071/Cal/78. Bunker Ramo Corporation. Coupling assembly for resilient electrical connector components.

1072/Cal/78. London Laboratories Limited Co. Compositions and method for inhibiting formation of explosive compounds and conditions in silvering concentrates.

1073/Cal/78. E. I. DU Pont DE Nemours and Company. Insecticidal compositions.

1074/Cal/78. H. T. Grisbach. Manipulator.

27th September, 1978

1075/Cal/78. Aktieselskabet De Danske Sukkerfabrikker. Method of feeding a sugar cane disintegrator with sugar canes and sugar cane feeding apparatus for carrying out the method.

1076/Cal/78. Stauffer Chemical Company. Process for manufacturing substantially pure dialkyl phosphorochloridothionates.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra is sent out of India) Requisition for the sup-

ply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 196-B.

145500.

Int. Cl. F24f 7/00.

#### AIR CONDITIONING TERMINAL.

*Applicant* : CARRIER CORPORATION, AT SYRACUSE, NEW YORK, UNITED STATES OF AMERICA.

*Inventors* : CARL CHESTER HERB AND KENNETH KANAR CUNNINGHAM.

Application No. 771/Cal/76 filed May 3, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

An air conditioning terminal provided to discharge conditioned air into a space comprising first and second damper assemblies with an outer wall of each assembly spaced from first and second vertically extending walls to define first and second air passages, and an inner wall of each assembly spaced from a third vertically extending wall to define third and fourth air passages, with said third and fourth passages being disposed radially inward relative to said first and second air passages, and said third vertically extending wall being disposed substantially on the vertical axis of said terminal; and a diffuser section comprising first and second side diffuser members having a third diffuser member interposed therebetween to define first and second air discharge openings substantially in vertical alignment with said third wall, said side diffuser members including a portion having a curved surface spaced from the sides of said third wall to define therebetween sections wherein the air moving through said first, second, third and fourth air passages is gradually directed towards a mixing space provided between the lower surface of said third wall and said first and second discharge openings.

CLASS 40-H.

145501.

Int. Cl. B01d 53/02.

#### IMPROVEMENTS IN ADIABATIC SWING PROCESS FOR SEPARATION OF GAS MIXTURES BY SELECTIVE ADSORPTION.

*Applicant* : UNION CARBIDE CORPORATION, OF 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventors* : ANDRIJA FUDERER & ERNST RUDELSTORFER.

Application No. 1163/Cal/76 filed June 30, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

In an adiabatic pressure swing process for separation of gas mixtures by selectively adsorbing at least one gas component in each of mixtures by selectively adsorbing at least one gas component in each of multiple adsorbent beds by the cycle of introducing feed gas mixture to the bed inlet end at first highest superatmospheric pressure, discharging unadsorbed product effluent from the bed discharge end, releasing initial void space gas from the bed discharge end and introducing the so-released initial gas to the discharge end of another adsorbent bed previously purged of said one component and initially at lower pressure until the two beds are pressure equalized at higher intermediate pressure, releasing gas from the bed inlet end for countercurrent blowdown to lowest pressure, introducing one-component depleted gas from another adsorbent bed to the bed discharge end for desorp-

tion of said one component and purging through the bed inlet end, repressurizing the purged bed to said first highest superatmospheric pressure and thereafter repeating the cycle, the improvement comprising at least seven adsorbent beds, simultaneously introducing feed gas mixture to the inlet ends of at least two adsorbent beds in overlapping identical cycles sequentially from the first to the highest numbered bed and thereafter continuously repeating the sequence such that during the initial period of a bed adsorption step the immediately preceding lower numbered bed is also on its adsorption step and during the last period the immediately following higher numbered bed is also on its adsorption step; performing the initial void space gas releasing-pressure equalization in at least three separate phases comprising first pressure equalizing the adsorbent bed having completed its one component adsorption step, with a different previously purged and at least third higher numbered bed initially at lower intermediate pressure so that the two beds are finally at a first equalization pressure; second pressure equalizing the one component-containing adsorbent bed initially at said first equalization pressure with a still different previously purged and at least fourth higher numbered bed initially at still lower intermediate pressure so that the two beds are finally at a second equalization pressure; third pressure equalizing the one component-containing adsorbent bed initially at said second equalization pressure with another previously purged and at least fifth higher numbered bed initially at lowest pressure so that the two beds are finally at a third equalization pressure.

CLASS 116B &amp; G &amp; 167-C.

145502.

Int. Cl. B07b 15/00.

## LIGHT WEIGHT DRESSING TABLE.

*Applicant:* KLOCKNER-HUMBOLDT-DEUTZ AKTIENGESELLSCHAFT, OF DEUTZ-MULHEIMER-STR. 111, 5 KOLN 80, FEDERAL REPUBLIC OF GERMANY.

*Inventor:* WILLY JACKOBS, AND WERNER STRAUSIN.

Application No. 1221/Cal/76 filed July 8, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims

A dressing table with two masses oscillating towards each other as well as a device for exciting the oscillations, characterized by the arrangement of two table plates (1, 2) in a horizontal plane as well as an oscillator (3) there between and connected to both table plates, the working travel of which oscillator is directed linearly and through the centres of gravity of both table plates.

CLASS 32F**b** & 40A.

145503.

Int. Cl. C07c 57/04; 51/16.

PROCESS FOR THE PREPARATION OF ACRYLIC ACID OR METHACRYLIC ACID FROM THE CORRESPONDING ALDEHYDES.

*Applicant:* THE STANDARD OIL COMPANY, OF MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

*Inventors:* JAMES FERGUSON WHITE, & JAMES ROBERT REGE.

Application No. 1301/Cal/76 filed July 20, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims. No drawings.

In the process for the preparation of acrylic acid or methacrylic acid by the oxidation of acrolein or methacrolein respectively with molecular oxygen in the vapor phase at a reaction temperature of about 200°C to about 500°C in the presence of an oxide catalyst, and optionally in the presence

of steam, the improvement comprising using as a catalyst a catalyst described by the empirical formula



Wherein A is at least one of the elements selected from the group consisting of rubidium, thallium, cesium, arsenic, titanium and potassium;

and wherein a is a positive number less than about 3;

b is a zero to about 3;

c is a positive number less than about 2;

x is the number of oxygens required by the valence states of the other elements present;

and wherein said catalyst is prepared by (a) forming an aqueous slurry or suspension of compounds containing the required components, wherein at least part of the molybdenum component is provided by molybdenum trioxide; and (b) refluxing the resulting slurry or suspension.

CLASS 84C &amp; 141-D.

145504.

Int. Cl. C10L 5/00; C21b 1/00.

A PROCESS FOR SEPARATING PARTICULATE MATERIAL BY MEANS OF A DENSE MEDIUM SUSPENSION MADE UP OF MAGNETIC PARTICLES INTO HIGH AND LOW DENSITY FRACTIONS.

*Applicant:* CRUCIBLE S.A. OF 14 RUE ALDRINGEN, LUXEMBOURG.

*Inventor:* DAVID WRIGHT HORSFALL.

Application No. 1423/Cal/76 filed August 7, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A process wherein a particulate material is separated by means of a dense medium suspension made up of magnetic particles into high and low density fractions and the dense medium is recovered from the fractions by screening and washing to yield a first product recovered from the high density fraction and a second product recovered from the low density fraction, with the improvement that at least one of the products is subjected to a hydrocyclone separation to yield a dense fraction containing substantially only dense medium particles and a light fraction containing substantially all of the other particles and some dense medium particles and recovering the dense medium particles from the light fraction by means of a magnetic separation, the dense fraction and the recovered particles being utilized to make up the dense medium suspension.

CLASS 39-Q.

145505.

Int. Cl. C01b 27/00.

METHOD FOR REMOVAL OF ARSENIC AS ARSENIC SULPHIDE FROM SPENT VETROCOKE (ARSENIOUS OXIDE AND POTASSIUM CARBONATE) SOLUTION TO HELP POLLUTION CONTROL.

*Applicant:* FERTILIZER CORPORATION OF INDIA LIMITED, DURGAPUR, DISTRICT-BURDWAN, WEST BENGAL, INDIA.

*Inventors:* SRI DILIP KUMAR GHATAK, (2) SRI TARAPADA CHATTERJEE AND DR. ASIM KUMAR GUPTA.

Application No. 1608/Cal/76 filed September 1, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims. No drawing.

A process of precipitating arsenic completely as arsenic sulphide from spent vetrocoke solution comprises adding sulphide of sodium to the vetrocoke solution (containing alkaline arsenious oxide), mixing well, thereafter adding ferrof

sulphate solution to the above mixture, lowering the pH to 1.5 to 2.0 by adding dilute sulphuric acid, maintaining the temperature at 60°-70°C by heating the solution so obtained and precipitating and coagulating the arsenious sulphide.

CLASS 32F<sub>1</sub> & F<sub>3a</sub>.

145506.

Int. Cl. C07c 85/10.

#### IMPROVED PROCESS FOR THE MANUFACTURE OF AN AROMATIC AMINE.

*Applicant*: SOCIÉTÉ TOULOUSAINE DE PRODUITS CHIMIQUES "TOLOCHIMIE", OF 25, QUAI PAUL DOUMER, 92408 COURVEBOIE, FRANCE.

*Inventors*: SERGE DOUBOVETZKY, PETER FORSCHENER AND FRANÇOIS MONTAZEAU.

Application No. 1611/Cal/76 filed September 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

Process for the manufacture of an aromatic amine which comprises catalytically hydrogenating the corresponding mononitro derivative in the liquid phase in the presence of a hydrogenation catalyst in suspension in the liquid phase, such that the liquid phase contains aromatic amine previously prepared by the said process, and that the aromatic amine so produced is removed from the hydrogenator, and at least a portion of the water contained therein is removed in the liquid phase, to provide an aromatic amine containing no water or water in an amount less than the saturation value which is then recycled to the hydrogenator in an amount such that the formation of an aqueous phase in the hydrogenator is prevented.

CLASS 39K.

145507.

Int. Cl. C01b 17/72.

#### A METHOD OF PURIFYING DILUTE SULPHURIC ACID SOLUTIONS.

*Applicant*: ALLUMINIUM PECHINEY, OF 28, RUE DE BONNEL, 69003 LYON, FRANCE.

*Inventors*: COHEN JOSEPH AND ALAIN ADJEMIAN.

Application No. 1794/Cal/76 filed September 28, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims. No drawings.

A method of purifying a dilute sulphuric acid solution containing at least one of the elements iron and titanium in the form of ferric sulphate and titanyl sulphate, and possibly other sulphates, such as herein described comprising adding an excess of ammonium sulphate to said solution or to a mixture of such solutions if they do not contain ammonium sulphate, and then concentrating the solution in the presence of seed crystals in an amount of 0.5 to 3% by wt. of the solution from a previous operation at a temperature in the range 100 to 160°C until a concentration of free H<sub>2</sub>SO<sub>4</sub> in the range 50 and 59% is obtained, stirring the suspension obtained for 2 to 3 hours at that temperature, and thereafter separating the precipitate from the residual solution.

CLASS 32F<sub>1</sub> & F<sub>3a</sub> & F<sub>3b</sub> & 55E<sub>2</sub> & E<sub>1</sub>.

145508.

Int. Cl. C07c 51/00; A61k 27/14.

#### PROCESS FOR THE MANUFACTURE OF 3, 3'-TRIARYL METHANE-DICARBOXYLIC ACID DERIVATIVES.

*Applicant*: IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, SW1P 3JF, ENGLAND.

*Inventors*: GERAINT JONES AND DAVID SUMMERS THOMSON.

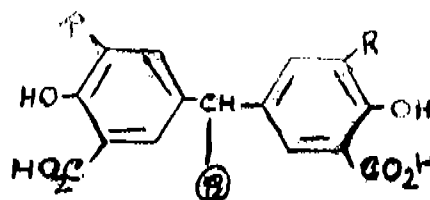
Application No. 2159/Cal/76 filed December 4, 1976.

Convention date December 29, 1975/(52999/75) U.K.

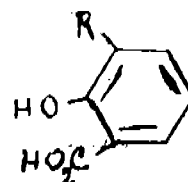
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

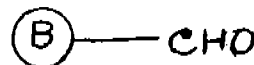
A process for the manufacture of a 3, 3'-triarylmethane-dicarboxylic acid derivative of the formula 1.



wherein R is hydrogen a C<sub>1</sub>-6 alkyl radical or a halogen atom and (B) is a 4-pyridyl radical, or a phenyl radical which may optionally bear from 1 to 3 substituents selected from halogen atoms, nitro, cyano carbamoyl, carboxy and formyl radicals; or a pharmaceutically acceptable salt thereof; but excluding those compounds of formula 1 wherein R is a methyl radical and (B) is a phenyl, 2-chlorophenyl, 4-chlorophenyl, 2, 6-dichlorophenyl, 2-5-dichlorophenyl or a 2, 3, 6-trichlorophenyl radical and excluding the compound of formula 1 wherein R is hydrogen and (B) is a 2, 4-dinitrophenyl radical; characterised in that a salicylic acid or derivatives thereof of the formula 11.



wherein R has the meaning defined above, is reacted with an aldehyde of the formula 111.



wherein (B) has the meaning defined above, in the presence of a strong acid; and whereafter when a pharmaceutically acceptable salt is required, a compound of the formula 1, is reacted with a base affording a pharmaceutically acceptable cation.

CLASS 32F<sub>2b</sub> & 55D<sub>2</sub>.

145509.

Int. Cl. C07d 91/62, A01n 9/12, 9/20.

#### PROCESS FOR THE MANUFACTURE OF NEW HERBICIDALLY (5-ALKYLBURBIDO-1, 3 4-THIADIAZOL-2-YL-THIO)-ACETIC ACID ESTERS.

*Applicant*: SCHERING AKTIENGESSELLSCHAFT, OF BERLIN AND BERGKAMEN, 1 BERLIN 65, MÜLLERSTRASSE 170-178, FEDERAL REPUBLIC OF GERMANY.

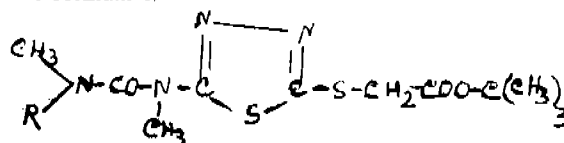
*Inventors*: FRIEDRICH ARNDT AND LUDWIG NUSSLEIN.

Application No. 2182/Cal/76 filed December 10, 1976.

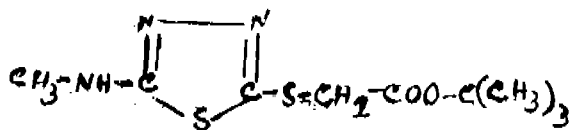
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

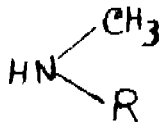
A process for the manufacture of a compound of the general formula I.



in which R represents a hydrogen atom or an alkyl group, wherein (5-methylamino-1, 3, 4-thiadiazol-2-yl-thio) acetic acid tert-butyl ester of the formula II.



is reacted in the presence of an acid-binding agent with phosphine and an amine of the general formula III.



in which R has the meaning given above.

CLASS 32F<sub>2</sub>b & 55D<sub>2</sub>.

145510.

Int. Cl. C07d 91/62, A01n 9/12, 9/20.

PROCESS FOR THE MANUFACTURE OF NEW HERBICIDALLY 5-ALKYLUREIDO-1, 3, 4-THIAZOL-2-YL-SULPHONYLACETIC ACID DERIVATIVES.

*Applicant*: SCHERING AKTIENGESellschaft, OF BERLIN AND BERGKAMEN, FEDERAL REPUBLIC OF GERMANY.

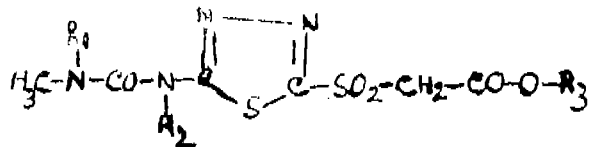
*Inventors*: DR. FREDERICH ARNDT AND DR. LUDWIG NUSSLEIN.

Application No. 2183/Cal/76 filed December 10, 1976.

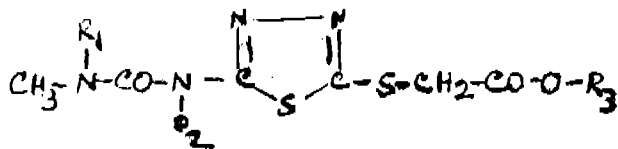
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims

A process for the manufacture of a compound of the general formula I.



in which R<sub>1</sub> and R<sub>2</sub> each represents a hydrogen atom, an alkyl group and R<sub>3</sub> represents a hydrogen atom, an alkyl group, a monovalent metal equivalent, an unsubstituted ammonium group or an ammonium group substituted by one or more substituent, each substituent being an unsubstituted or substituted alkyl group, wherein a compound of the general formula IX.



in which R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> have the meanings given above, is treated with an oxidizing agent such as hereinbefore described.

CLASS 39-0 & 141A.

145511.

Int. Cl. 01b 33/12, C22b 1/14.

METHOD OF INCREASING THE VOLUME WEIGHT OF SILICA DUST.

*Applicant*: ELKEM-SPIGERVERKET A/S OF ELKE-MHUSET, MIDDELTHUNSGATE 27, OSLO 3, NORWAY.

*Inventor*: OLE ANDREAS KONGSGAARDEN.

Application No. 605/Cal/77 filed April 21, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

A method of increasing the bulk density of colloidal silica dust such as is precipitated from the smoke of smelting furnaces used in the production of silicon metal ferrosilicon and silicon-containing alloys which comprises retaining the dust for a period of time in a rotating drum so as to produce round agglomerations of the dust.

CLASS 32F<sub>2</sub>c.

145512.

Int. Cl. C07c 103/12.

PROCESS FOR PREPARING AN ACETAMIDE DERIVATIVE.

*Applicant*: LABAZ, OF 39 AVENUE PIERRE LERDER SERBIE, F-75008, PARIS, FRANCE.

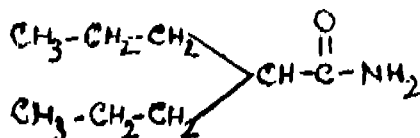
*Inventors*: MICHEL CHIGNAC, CLAUDE GRAIN AND CHARLES PIGEROL.

Application No. 619/Cal/77 filed April 25, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 6 Claims

Process for preparing di-n-propyl acetamide of formula shown in the accompanying drawings.



characterised in that di-n-propyl acetonitrile is hydrolysed by means of an 80% by weight sulphuric acid aqueous solution at the rate of 2 to 2.5 g of aqueous acid/g of nitrile, at a temperature which is between 80°C and 130°C for obtaining the desired amide.

CLASS 145E<sub>2</sub> & E<sub>6</sub>.

145513.

Int. Cl. D21c 3/04.

A METHOD FOR MAKING CHEMICAL PULP BY PROCESSING AGRICULTURAL WASTES, SUCH AS CEREAL STRAWS.

*Applicant & Inventors*: GEORGE NICHOLAS VALKANAS, OF 14 CONSTANTINOPOLEOS STREET, AMAROUSSION, GREECE, DEMETRIUS GEORGE ECONOMIDIS, OF 7 AGIOU THOMA STREET, AMAROUSSION, GREECE AND EMMANUEL GEORGE KOUKIOS, OF 14 ILISION STREET, ATHENS, GREECE.

Application No. 1875/Cal/76 filed October 13, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims. No drawings.

A method for making chemical pulp by processing cellulosic agricultural wastes, such as cereal straws, characterized in that the cellulosic wastes are subjected to a prehydrolysis treatment to convert easily hydrolysable constituents such as pentosans, starch and hemicelluloses into monosaccharides, and the cellulosic residue is converted to chemical pulp by treatment with alkaline solution of sulfite salts.

CLASS 17D.

145514.

Int. Cl. A23L 1/30.

PROCESS FOR THE PREPARATION OF A NUTRITIVE COMPOSITION.

*Applicant & Inventor*: RACHEL DARDEN DAVIS, OF 111 EAST GORDON STREET, KINSTON, NORTH CAROLINA, U.S.A.

Application No. 2091/Cal/76 filed November 23, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims. No drawings.

An improved method of preparing a highly stable nutritive composition for supplementing daily dietary requirements which comprises preparing an aqueous solution of water, gelatin and metabolically available iron and then adding ascorbic acid to the solution, with the iron and ascorbic acid being present in such quantities as are suitable for supplementing the human diet, the gelatin being present in 1 to 3 parts per 40 part by weight of iron to retard the deterioration of the ascorbic acid in the presence of the iron and without gelling the solution.

## CLASS 132D.

Int. Cl.-F23k 1/02.

## A PROCESS FOR PRODUCTION OF SOLID FUEL-WATER SLURRIES.

*Applicant*: TEXACO DEVELOPMENT CORPORATION OF 135 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventors*: HARRY CLEARANCE WIESE AND JEROLD RAY DENCHFIELD AND LLOYD KEYS AHLBORN.

Application No. 406/Cal/77 filed March 21, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 18 Claims. No drawings.

A process for the production of a solid fuel-water slurry of improved pumpability characteristics wherein at least 50 wt. % of the solid fuel passes through a 200 mesh sieve which comprises forming a solid fuel-water slurry containing  $\text{NH}_4\text{OH}$  in an amount between 0.1 and 5.0 wt. % based on the final weight of the slurry.

## CLASS 32F.

145516.

Int. Cl.-C07c 25/02.

## SEPARATION OF MIXTURE OF 3 : 4 and 2 : 4 DICHLOROBENZYL CHLORIDES FROM REACTION PRODUCT CONTAINING SAME AND p-CHLOROBENZYL CHLORIDE.

*Applicant*: UNION CARBIDE INDIA LIMITED, OF 1, MIDDLETON STREET, CALCUTTA-700016, WEST BENGAL, INDIA.

*Inventors*: DR. DABABRATA CHOUDHURY, RAMAKRISHNAN CHELAKODE KRISHNAN AND ANANTNARAYAN KUMAR SUBRAMANIAM.

Application No. 1389/Cal/77 filed September 9, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims. No drawings.

In a process of nuclear chlorination of p-chloro benzyl chloride with chlorine using iodine and acetic acid as catalyst the method of separating from the reaction product, containing 2 : 4 and 2 : 4 dichlorobenzyl chloride as major constituent, the unreacted p-chlorobenzyl chloride (p-CBC) and, if desired, also distilling off the mixture of 3 : 4 and 2 : 4 dichlorobenzyl chlorides (DCBC), comprising removing the iodine and acetic acid present in the reaction products by washing with an aqueous solution of potassium iodide and then subjecting the catalyst free reaction products to distillation under reduced pressure of 10-20 mm Hg absolute to distil off p-CBC, and, if desired, continuing the distillation under the same reduced pressure to distil off DCBC.

## CLASS 39K &amp; 139D.

145517.

Int. Cl.-C10k 3/02, 3/00.

## PROCESS FOR THE PREPARATION OF A HYDROGEN-RICH GAS.

*Applicant*: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., OF CAREL VAN BLYANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

*Inventors*: EMMANUEL EMILE ALFRED NEEL, MICHEL DEFLIN, JACQUES VANRENTERGHEN AND JEAN-CLAUDE CLEMENT.

Application No. 321/Del/77 filed October 18, 1977.

Appropriate office for opposition Proceedings Rule (4, Patent Rules, 1972) Patent Office, Delhi Branch.

## 8 Claims. No drawings.

A process for the preparation of a hydrogen-rich gas by converting a carbon monoxide-containing gas with steam, characterized in that the conversion is effected in the presence of a catalyst containing at least one spinel belonging to the compositions which correspond to the formulae  $\text{Cu}_{0.8}\text{Zn}_{0.2}\text{Fe}_2\text{O}_4$  and  $\text{MgFe}_{1.6}\text{Cr}_{0.4}\text{O}_4$ .

## CLASS 141D.

145518.

Int. Cl.-B03b 3/10.

## ORE SEPARATOR

*Applicant*: YAKUTSKY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT ALMAZODOBYVA JUSCHEI PROMYSHLENNOSTI "YAKUTNIIPROALMAZ" OF MIRNY YAKUTSKOI ASSR, ULITSA LENINA 39, USSR. AND LENINGRADSKOE NAUCHNO-PROIZVODSTVENNOE OBIED INENIE "BUREVESTNIK", OF LENINGRAD, ULITSA STAKHANOVTSSEV 1, USSR.

*Inventors*: MARK BORISOVICH BELLO, (2) JURY PAVLOVICH GIRREMEIER, (3) NIKOLAI IVANOVICH KOMYAK, (4) ANATOLY ISIDOROVICH LEVITIN, (5) VALERY ISAAKOVICH STOLIN, (6) SEMEN PINEVICH FRUMKIN, (7) VIKTOR SEMENOVICH VIJUNNIK, ANATOLY BORISOVICH LETTES, (9) JURY VASILIEVICH LYAKHOV, (10) VLADLEN VASILIEVICH NOVIKOV, (11) FELIK ANATOLIEVICH PATSIANSKY, (12) ALEXANDR IVANOVICH SEMYANOV AND NIKOLAI MATVEEVICH YAROSHEVICH.

Application No. 250/Cal/77 filed February 19, 1977.

Appropriate office for opposition Proceedings Rule (4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

An ore separator comprising a charging means secured on a hollow housing provided with a horizontal light-insulating partition mounting thereupon and around said charging means at least two X-ray tubes, photo-electric means and air ejector means, said partition being formed with respective slots for the passage of X-ray irradiation from the X-ray tubes onto the feed grains, for the passage of X-ray luminescence from the luminescent feed grains onto the photo-electric means, and for the passage of air pulses from the ejector means onto luminescent feed grains, said partition also being formed with an opening for receiving the charging means arranged above a means for distributing the ore being dressed in a layer, provided with a rotation drive, the irradiated feed grains then entering the area wherein X-ray luminescence is received by the photo-electric means electrically connected to the ejector means arranged over and along the path of travel of the grains, opposite a vertical partition enveloping the bowl of said means and isolating coaxially arranged compartments for the separation products, the interior surface of the bowl has a shape substantially close to that of paraboloid with the upper portion thereof having a funnel shaped surface, the generatrix of which forms together with a vertical and angle ranging from 5 to 15°.

## CLASS 81.

145519.

Int. Cl.-A62d 1/00.

## PROCESS FOR THE PREPARATION OF A FIRE-EXTINGUISHING COMPOSITION.

*Applicant*: IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND.

*Inventors*: ROWLAND KENNINGTON AND ROBIN ANDREW WOOLHOUSE.

Application No. 1988/Cal/76 filed November 1, 1976.

Convention date November 14, 1975 (47040/75) U.K.

Appropriate office for opposition Proceedings Rule (4, Patents Rules 1972) Patent Office, Calcutta.

#### 18 Claims

A process for the preparation of a fire-extinguishing composition comprising a compound having an empirical formula  $MC_2N_2H_3O_3$ , wherein M is potassium or sodium, which process comprises reacting a mixture of urea and an alkali selected from hydroxides and carbonic salts of potassium or sodium, characterized in that solid particulate urea, or urea and alkali in solid particulate form, is added to an agitated bed of solid particulate material, the bed of particulate material being heated to a temperature in the range 95°C to 200°C and comprising at least alkali in the case where urea alone is added, and in that the rate of addition of the urea, or of the urea and alkali, is controlled to maintain the bed in a solid particular form.

CLASS 85G & 97F.

145520.

Int. Cl.-F27b 1/00, C22b 21/00.

IMPROVEMENTS IN OR RELATING TO ALUMINIUM SMELTING FURNACES.

*Applicant*: MOSAL ALUMINIUM-ELKEM-SPIGER-VERKET A/S & Co., FORMERLY KNOWN AS LISTA-OG MOSJEN ALUMINIUMVERK, ELKEM ALUMINIUM A/S & Co., OF MIDDELTHUNNS GATE 27, OSLO 3, NORWAY.

*Inventor*: ARNE ENGLAND.

Application No. 1825/Cal/75 filed September 23, 1975.

Appropriate office for opposition Proceedings Rule (4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An electric smelting furnace for the production of aluminium by melt electrolysis, the furnace having a furnace pot for containing the bath of molten charge material and an anode which is suspended above the pot to extend downwardly into the bath in the furnace pot, electric current being supplied to the anode by means of vertical contact studs inserted into the anode, and the furnace being provided with a gas collecting ring which closely surrounds the anode at the level of the surface of the bath in the furnace pot, and with an enclosure structure which surrounds and is spaced from the furnace above the level of the top of the furnace pot and serves as a screen to protect the surrounding of the furnace against furnace gases and heat radiation, the enclosure structure also acting as a chimney whose natural draught will conduct furnace gases up to above the operator working level outside the furnace.

#### RENEWAL FEES PAID

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112475 112630 112641 112688 112820 112869 112896 113068  
113076 113252 113493 113513 113761 113799 115081 115489  
117893 117931 118148 118182 118290 118418 118419 118458  
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#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act. 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 146387. Vishal Refrigeration Works, E-70, Lajpat Nagar Garhi, New Delhi-110024, an Indian Partnership Concern. "Ice Cream Freezer". December 21, 1977.

Class 1. No. 146401. Star Hardware Manufacturing Co. 105/220, Chaman Ganj, Kanpur (UP) an Indian Partnership concern. "Handle" December 26, 1977.

Class 1. Nos. 146407 to 146410. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India, "Electric Dry Cell". December 27, 1977.

Class 1. No. 146416. Ramji Deo, an Indian Citizen, 506, Shanwar Peth, Mahunpura, Near Ahilyadevi High School, Pune-411 030, Maharashtra, India. "Silence burner" December 29, 1977.

Class 1. Nos. 146421 to 146424. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal India. "Electric dry cell" December 29, 1977.

Class 1. No. 146494. R & K. Electric Company, B-43, Inderprastha Industrial Area, Kota-324005 (Rajasthan), an Indian Partnership Concern. "Flour Mill cum Mixi" January 5, 1978.

Class 1. No. 146512. Abidsons, Nai Sarak, Moradabad, (UP) an Indian Partnership Firm. "Coffee Pot". January 7, 1978.

Wazir Pur Industrial Area, New Delhi, an Indian Partnership Concern. "Tiffin Carrier". January 10, 1978.

Class 1. No. 146525. Mohamed Ebrahim Adam, 384, Bhairucha, Compound, Sane Guruji Marg, Agripada, Bombay-400011, State of Maharashtra, India, "Silencer U-type bracket for motor-cars". January 16, 1978.

Class 1. No. 146543. Bhagwati Modern Industries, 4593/7, Imperial Building, Opp: Kaluwar Police Station, Relief Road, Ahmedabad-380001, Gujarat State, an Indian Partnership Firm. "Hypodermic Needle". January 17, 1978.

Class 1. No. 146544. Punjab Stainless Steel Industries, B-61, Wazirpur Industrial Area, New Delhi, an Indian Partnership Concern. "Donga" January 17, 1978.

Class 1. No. 146550. Raja Electrical Industries, 54/3, Hanuman Road, New Delhi-110001, an Indian Proprietorship Concern. "Mixer" January 20, 1978.

Class 1. No. 146567. Satya Pal Gupta, Flat No. 3-C, Block C-2B, Janakpuri, New Delhi, an Indian National, "Tri Cyle" January 28, 1978.

Class 1. No. 146592. Star Hardware Mfg. Co., at 105/220' Chaman Ganj, Kanpur (UP), Indian Partnership Concern. "Handle" February 1, 1978.

Class 1. No. 146593. Philips India Limited, of Shivasagar Estate, Block "A" Dr. Annie Basant Road, Worli, Bombay-18, (WB) Maharashtra State, India, an Indian Company. "Luminaire" February 1, 1978.

Class 1. No. 146636. Shell Oil South Africa (Proprietary) Limited, a Company registered with Limited Liability in accordance with the laws of the Republic of South Africa of Shell House, Greenmarket Square, Cape Town, Cape Province, Republic of South Africa. "A Solar water heater". August 15, 1977 (U.K.).

Class 1. No. 146637. Shell Oil South Africa (Proprietary) Limited, a company registered with Limited Liability in accordance with the laws of the Republic of South Africa of Shell House, Greenmarket Square, Cape Town, Cape Province, Republic of South Africa. "A support for a solar water heater" August 15, 1977 (U.K.).

Class 3. Nos. 146417 to 146420. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Electric dry cell". December 29, 1977.

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Controller-General of Patents,  
Designs and Trade Marks